CONTENTS OF *ANIMAL FEED SCIENCE AND TECHNOLOGY*, VOLUME 26

VOL. 26 NOS. 1–2 OCTOBER 1989

Leucaena leucocephala in poultry nutrition — a review
J.P.F. D'Mello and T. Acamovic (Edinburgh, Gt. Britain) 1
Effect of infrared irradiation or extrusion processing of maize on its digestibility in piglets
A.F.B. van der Poel, L.A. den Hartog, Th. van den Abeele, H. Boer and D.J. van Zuilichem (Wageningen, The Netherlands) 29
Sunflower seed meal, sunflower oil and full-fat sunflower seeds, hulls and kernels for laying hens
H. Karunajeewa, S.H. Tham and S. Abu-Serewa (Werribee, Vic., Australia) 45
Rumen anaerobic fungi and plant substrate colonization as affected by diet composition
E. Grenet, P. Barry, G. Fonty (Ceyrat, France) and A. Breton (Clermont-Ferrand, France) 55
Effect of enzyme addition, autoclave treatment and fermenting on the nutritive value of field beans (*Vicia faba* L.)
J.I.R. Castanon and R.R. Marquardt (Winnipeg, Man., Canada) 71
The chemical composition and nutritive value of rice straw after treatment with urea or *Coprinus fimetarius* in a solid state fermentation system
S.N. Rai, T.K. Walli and B.N. Gupta (Haryana, India) 81
The effect of cereal processing on the lactation performance of Chios sheep and Damascus goats and the pre-weaning growth of their offspring
S. Economides, E. Georghiades, A. Koumas and M. Hadjipanayiotou (Nicosia, Cyprus) .. 93
Voluntary intake and digestibility of barley straw as influenced by variety and supplementation with either barley grain or cottonseed cake
B.S. Capper (London, Gt. Britain), E.F. Thomson and S. Rihawi (Aleppo, Syria) 105
Chemical composition and nutritive value of ghee residue for chickens
M.P. Arumugam, K. Vedhanayagam, K.A. Doraisamy and D. Narahari (Madras, India) . 119
Performance of finishing cattle fed maize silage prior to grain adaptation
F. Goedeken, R. Stock, M. Ford and D. Clanton (Lincoln, NE, U.S.A.) 129
Grape juice concentrate as a feed for beef cattle
C.L. Hemsley, P. Rowlinson, and M. Ellis (Newcastle upon Tyne, Gt. Britian) 139
Grape juice concentrate as a feed for growing pigs
C.L. Hemsley, M. Ellis and P. Rowlinson (Newcastle upon Tyne, Gt. Britain) 153

Guide for Authors 173

VOL. 26 NOS. 3–4 NOVEMBER 1989

Response of growing cattle given rice straw to lickblocks containing urea and molasses
J.B. Schiere, M.N.M. Ibrahim, V.J.H. Sewalt (Peradeniya, Sri Lanka) and G. Zemmelink (Wageningen, The Netherlands) 179
The effect of mild heat on the nutritional value of triticale for growing pigs
E.S. Batterham, H.S. Saini and L.M. Andersen (Wollongbar, N.S.W., Australia) 191
Chemical composition and nutritive value to sheep of untreated and oven-ammoniated

CONTENTS OF *ANIMAL FEED SCIENCE AND TECHNOLOGY*, VOLUME 26

VOL. 26 NOS. 1–2 OCTOBER 1989

Leucaena leucocephala in poultry nutrition — a review
J.P.F. D'Mello and T. Acamovic (Edinburgh, Gt. Britain) 1
Effect of infrared irradiation or extrusion processing of maize on its digestibility in piglets
A.F.B. van der Poel, L.A. den Hartog, Th. van den Abeele, H. Boer and D.J. van Zuilichem (Wageningen, The Netherlands) 29
Sunflower seed meal, sunflower oil and full-fat sunflower seeds, hulls and kernels for laying hens
H. Karunajeewa, S.H. Tham and S. Abu-Serewa (Werribee, Vic., Australia) 45
Rumen anaerobic fungi and plant substrate colonization as affected by diet composition
E. Grenet, P. Barry, G. Fonty (Ceyrat, France) and A. Breton (Clermont-Ferrand, France) 55
Effect of enzyme addition, autoclave treatment and fermenting on the nutritive value of field beans (*Vicia faba* L.)
J.I.R. Castanon and R.R. Marquardt (Winnipeg, Man., Canada) 71
The chemical composition and nutritive value of rice straw after treatment with urea or *Coprinus fimetarius* in a solid state fermentation system
S.N. Rai, T.K. Walli and B.N. Gupta (Haryana, India) 81
The effect of cereal processing on the lactation performance of Chios sheep and Damascus goats and the pre-weaning growth of their offspring
S. Economides, E. Georghiades, A. Koumas and M. Hadjipanayiotou (Nicosia, Cyprus) .. 93
Voluntary intake and digestibility of barley straw as influenced by variety and supplementation with either barley grain or cottonseed cake
B.S. Capper (London, Gt. Britain), E.F. Thomson and S. Rihawi (Aleppo, Syria) 105
Chemical composition and nutritive value of ghee residue for chickens
M.P. Arumugam, K. Vedhanayagam, K.A. Doraisamy and D. Narahari (Madras, India) . 119
Performance of finishing cattle fed maize silage prior to grain adaptation
F. Goedeken, R. Stock, M. Ford and D. Clanton (Lincoln, NE, U.S.A.) 129
Grape juice concentrate as a feed for beef cattle
C.L. Hemsley, P. Rowlinson, and M. Ellis (Newcastle upon Tyne, Gt. Britian) 139
Grape juice concentrate as a feed for growing pigs
C.L. Hemsley, M. Ellis and P. Rowlinson (Newcastle upon Tyne, Gt. Britain) 153

Guide for Authors 173

VOL. 26 NOS. 3–4 NOVEMBER 1989

Response of growing cattle given rice straw to lickblocks containing urea and molasses
J.B. Schiere, M.N.M. Ibrahim, V.J.H. Sewalt (Peradeniya, Sri Lanka) and G. Zemmelink (Wageningen, The Netherlands) 179
The effect of mild heat on the nutritional value of triticale for growing pigs
E.S. Batterham, H.S. Saini and L.M. Andersen (Wollongbar, N.S.W., Australia) 191
Chemical composition and nutritive value to sheep of untreated and oven-ammoniated

ryegrass hays prepared from crops of differing maturities
V.C. Mason, J.E. Cook, M.S. Dhanoa, A.S. Keene and R.D. Hartley (Maidenhead, Gt. Britain) 207
Genotypic and environmental differences in extract viscosity of barley and their relationship to its nutritive value for broiler chickens
G.L. Campbell, B.G. Rossnagel, H.L. Classen and P.A. Thacker (Saskatoon, Sask., Canada) 221
Effect of forage and concentrate intake level on rumen degradability of protein sources having different in vitro rates of N solubilisation
P. Susmel, B. Stefanon and E. Piasentier (Udine, Italy) 231
A comparison of various feeding systems for finishing pigs
D.C. Patterson (Hillsborough, Northern Ireland) 251
A comparison of offering meal from a self-feed hopper having built-in watering with some conventional systems of offering meal and pellets to finishing pigs
D.C. Patterson (Hillsborough, Northern Ireland) 261
Estimation of the true ileal digestibility of amino acids and nitrogen from their apparent values for growing pigs
S. Furuya and Y. Kaji (Kumamoto, Japan) 271
High wheat and maize silage diets for growth and fattening young cattle
A. Brosh, Z. Holzer, A. Bar-Tsur, D. Levy (Haifa Post, Israel), D. Ilan and J. Kali (Tel Aviv, Israel) 287
Calorimetric determination of the degradation rate of rapidly fermentable organic matter of forages
A. Arieli and D. Werner (Rehovot, Israel) 299
Influence of method of calculation and length of period of rumen fermentation on the effective degradability of dry matter and nitrogen in some tree forages
S.S. Negi, B. Singh and H.P.S. Makkar (Palampur, India) 309
Chemical composition, digestibility in vitro, and digestibility and energy value in vivo of untreated cereal straws produced on farms throughout England
D.I. Givens, J.M. Everington (Stratford-on-Avon, Gt. Britain) and A.H. Adamson (Bristol, Gt. Britain) 323
Effect of autoclaving on metabolizable energy value of smooth pea seed (*Pisum sativum*) in growing chicks
L. Conan and B. Carre (Monnaie, France) 337
Effect of purified immunoglobulins or pooled colostrum on performance of rearing calves
L.O. Fiems, Ch. V. Boucqué, B.G. Cottyn (Melle-Gontrode, Belgium), E. Vanopdenbosch (Brussels, Belgium) and Y. Vancoillie (Ghent, Belgium) 347

Book Review
Rice straw 357

Author Index 359